

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Addiese: COMMISSIONER FOR PATENTS P O Box 1450 Alexandra, Virginia 22313-1450 www.wepto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/538,701	11/18/2005	Francois Malaubier	VA30429	3769
39600 7590 09/26/2008 SOFER & HAROUN LLP. 317 MADISON AVENUE, SUITE 910			EXAMINER	
			RINEHART, KENNETH	
NEW YORK, NY 10017			ART UNIT	PAPER NUMBER
			3749	
			MAIL DATE	DELIVERY MODE
			09/26/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/538,701 MALAUBIER ET AL. Office Action Summary Examiner Art Unit KENNETH B. RINEHART 3749 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 26 August 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-7.9 and 12-22 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-7,9 and 12-22 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 26 August 2008 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No.

application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Copies of the certified copies of the priority documents have been received in this National Stage

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 2, 3, 6, 7, 12, 14, 18, 19, 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Prior art in view of DE3841874. Prior art discloses a grinding station that grinds the solid fuel into particles (3); a separator that intercepts coarser particles to provide finer particles a combustion chamber (4), at least one cyclone that intercepts fine particles from the finer particles to provide finest particles (5); an intermediate silo that receives the fine particles for burning in a combustion chamber (6): and a dust extractor that intercepts the finest particles (10). DE3841874 teaches which are then provided by a dedicated pipe to a dedicated burner for burning in the combustion chamber, the dedicated burner is near a main burner, the intercepted particles have a diameter less than 75 microns, the solid fuel is non-bituminous coal (col. 3, lines 36-51, col. 6, lines 66-col. 7, line 6, col. 7, line 38-58, figs. 1, 4), some of the finest particles are provided by a second dedicated pipe to a dedicated injector that introduces the finest particles into the combustion chamber, the finest particles provided to the dedicated injector to introduce the finest particles into the combustion chamber near the main burners (63), the finest particles have a higher content of combustible material than the fine particles (This content is inherent.), the fine particles are provided to a main burner for burning in the noombustion chamber (70) for the purpose improving the firing process. It would have been obvious to one of ordinary skill in

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the art to modify Prior art by including which are then provided by a dedicated pipe to a dedicated burner for burning in the combustion chamber, the dedicated burners are near main burners, the intercepted particles have a diameter less than 75 microns, the solid fuel is nonbituminous coal, some of the finest particles are provided by a second dedicated pipe to a dedicated injector that introduces the finest particles into the combustion chamber, the finest particles provided to the dedicated injector to introduce the finest particles into the combustion chamber near the main burners as taught by DE3841874 for the purpose of improving the firing process. The applicant is merely combining prior art elements according to known methods to vield predictable results. Prior art in view of DE3841874 discloses applicant's invention substantially as claimed with the exception of the intercepted particles have a true mass per unit volume from 0.1 kg/dm3 to 0.4 kg/dm3 lower than that of the particles intercepted by the cyclone. At the time the invention was made it would have been an obvious matter of design choice to a person of ordinary skill in ht art to have the intercepted particles have a true mass per unit volume from 0.1 kg/dm3 to 0.4 kg/dm3 lower than that of the particles intercepted by the cyclone because applicant hAs not disclosed that mass per unit volume provides an advantage, is used for a particular purpose or solves a stated problem. One of ordinary skill in the art, furthermore, would have expected Applicant's invention to perform equally well with either the mass per unit volume of Prior art or the claimed mass per unit volume because both perform the same function equally well. Prior art in view of DE3841874 discloses applicant's invention substantially as claimed with the exception of the finest particles are provided by a plurality of dedicated pipes to respective dedicated burners, each of the dedicated burners being near a respective main burner. It would have been an obvious matter of design choice to modify Prior

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art in view of DE3841874 to provide a plurality of pipes, since to provide for a multiplied effect involves only routine skill in the art.

Claims 4, 21, and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Prior art in view of EP0747629. Prior art discloses a grinding station that grinds the solid fuel into particles (3); a separator that intercepts coarser particles to provide finer particles a combustion chamber (4), at least one cyclone that intercepts fine particles from the finer particles to provide finest particles (5); an intermediate silo that receives the fine particles for burning in a combustion chamber (6); and a dust extractor that intercepts the finest particles (10). EP0747629 teaches provided by a dedicated pipe to a dedicated injector to introduce the finest particles into the combustion chamber (col. 4, lines 41-55, col. 5, lines 50-58, col. 6, lines 56-col. 7, line 37), wherein the dedicated injector is disposed near a main burner, the dedicated injector introduces the finest particles downstream of a main burner (Combustion chamber 1 is main burner, fig. 1.) for the purpose of burning powdered fuel to reduce NOX. It would have been obvious to one of ordinary skill in the art to modify Prior art by including provided by a dedicated pipe to a dedicated injector to introduce the finest particles into the combustion chamber, wherein the dedicated injector is disposed near a main burner, the dedicated injector introduces the finest particles downstream of a main burner as taught by EP0747629 for the purpose of burning powdered fuel to reduce NOX. The applicant is merely combining prior art elements according to known methods to yield predictable results.

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Prior art in view of EP0747629 as applied to claim 4 above, and further in view of Vatsky (4,270,895). Vatsky teaches finest particles are injected under substoichiometric conditions (col. 7, lines 55-60) for

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the purpose of reducing NOX. It would have been obvious to one of ordinary skill in the art to modify Prior art by including finest particles are injected under substoichiometric conditions as taught by Vatsky for the purpose of reducing NOX to meet environmental regulations. The applicant is merely combining prior art according to known methods to yield predictable results. as to burn fuel under substoichiometric conditions is a well known means to reduce pollutants.

Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Prior art in view of DE3841874 as applied to claim 1 above, and further in view of FR 2,534,359. FR 2,534,359 teaches the combustion chamber is a double vault combustion chamber (page 1, lines 24-30) for the purpose of containing the combustion reaction. It would have been obvious to one of ordinary skill in the art to modify Prior art by including the combustion chamber is a double vault combustion chamber as taught by FR 2,534,359 for the purpose of containing the combustion reaction. The applicant is merely substituting one known element for another to obtain predictable results.

Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over Prior art in view of DE3841874 as applied to claim 1 above, and further in view of Vatsky (4,253,403). Vatsky teaches the finest particles is mixed with a hot gas (col. 3, lines 60-68) for the purpose of improving thermal efficiency. It would have been obvious to one of ordinary skill in the art to modify Prior art by including the finest particles is mixed with a hot gas as taught by Vatsky for the purpose of improving thermal efficiency. The applicant is merely combining prior art according to known methods to yield predictable results.

Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Prior art in view of DE3841874 as applied to claim 1 above, and further in view of Shuman (2083126). Shuman

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teaches a feeder that meters the quantity of the finest material to the dedicated burner (15) for the purpose of controlling the flow of fuel. It would have been obvious to one of ordinary skill in the art to modify Prior Art by including a feeder that meters the quantity of the finest material to the dedicated burner as taught by Shuman for the purpose of controlling the flow of fuel. The applicant is merely combining prior art according to known methods to yield predictable results.

Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Prior art in view of DE3841874 as applied to claim 1 above, and further in view of Tobias (6369680). Tobias teaches the combustion chamber is a front heating combustion chamber (col. 5, lines 46-col. 6, line 7) for the purpose of containing the combustion reaction. It would have been obvious to one of ordinary skill in the art to modify Prior art by including front heating combustion chamber as taught by Tobias for the purpose of containing the combustion reaction. The applicant is merely substituting one known element for another to obtain predictable results.

Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Prior art in view of DE3841874 as applied to claim 1 above, and further in view of EP 976977. EP976977 teaches a tangential heating combustion chamber (ABSTRACT) for the purpose of containing the combustion reaction. It would have been obvious to one of ordinary skill in the art to modify Prior art by including a tangential heating combustion chamber as taught by EP 976977 for the purpose of containing the combustion reaction. The applicant is merely substituting one known element for another to obtain predictable results.

Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Prior art in view of DE3841874 as applied to claim 1 above, and further in view of Malaubier et al (6415743).

Malaubier teaches the dust extractor includes a bag filter or an electrostatic dust extractor (col. 3,

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line 11) for the purpose of removing dust. It would have been obvious to one of ordinary skill in the art to modify Prior art by including the dust extractor includes a bag filter or an electrostatic dust extractor as taught by Malaubier et al for the purpose of removing dust. The applicant is merely substituting one known element for another to obtain predictable results.

Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Prior art in view of DE3841874 as applied to claim 1 above, and further in view of Lingl(4092094). Lingl teaches a dedicated intermediate silo (42, col. 6, lines 7-14) for the purpose of maintaining an air lock to prevent backward flow. It would have been obvious to one of ordinary skill in the art to modify Prior art by including a dedicated intermediate silo for the purpose of maintaining an air lock to prevent backward flow. The applicant is merely combining prior art according to known methods to yield predictable results.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the date of this $\,$

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final action.

Any inquiry concerning this communication should be directed to KENNETH B.

RINEHART at telephone number (571)272-4881.

/Kenneth B Rinehart/

Supervisory Patent Examiner, Art Unit 3749